

**IN THE CLAIMS:**

**Please enter the following amended claims:**

1. (Previously Presented) A system for the generation of at least one outgoing real-time digital control signal based on at least one incoming control signal, the system comprising:

an incoming control signal interface adapted to receive the at least one incoming control signal;

at least one control signal generator adapted to generate the at least one outgoing real-time digital control signal based on the at least one incoming control signal, wherein said at least one control signal generator is selected from the group consisting of:

a low frequency oscillator, and

a transient generator;

an outgoing control signal interface adapted to communicate the generated at least one outgoing real-time digital control signal; and

wherein the at least one incoming control signal is used to control events and parameters associated with the at least one control signal generator.

2. (Previously Presented) A method for the generation of at least one outgoing real-time digital control signal based on at least one incoming control signal, the method comprising:

receiving the at least one incoming control signal;

controlling events and parameters associated with at least one control signal generator using the at least one incoming control signal;

generating the at least one outgoing real-time digital control signal utilizing the at least one control signal generator, wherein the at least one control signal generator is selected from the group consisting of:

a low frequency oscillator, and

a transient generator

communicating the generated at least one outgoing real-time digital control signal to an external system via an outgoing control signal interface.

3. (Original) The system of claim 1 wherein said at least one outgoing real-time digital control signal is in the form of a MIDI message.

4. (Original) The method of claim 2 wherein said at least one outgoing real-time digital control signal is in the form of a MIDI message.

5. Cancelled

6. Cancelled

7. (Original) The system of claim 1 wherein the at least one control signal generator is a transient generator comprising an envelope generator with at least one parameter controlled by the at least one incoming control signal.

8. (Original) The system of claim 1 wherein the at least one control signal generator is a transient generator comprising a ramp generator with at least one parameter controlled by the at least one incoming control signal.

9. (Original) The system of claim 1 wherein the at least one control signal generator is a transient generator comprising a slew limiter with at least one parameter controlled by the at least one incoming control signal.

10. (Original) The method of claim 2 wherein the at least one control signal generator is a transient generator comprising an envelope generator with at least one parameter controlled by the at least one incoming control signal.

11. (Original) The method of claim 2 wherein the at least one control signal generator is a transient generator comprising a ramp generator with at least one parameter controlled by the at least one incoming control signal.

12. (Original) The method of claim 2 wherein the at least one control signal generator is a transient generator comprising a slew limiter with at least one parameter controlled by the at least one incoming control signal.

13. (Original) The system of claim 3 wherein the at least one incoming control signal comprises MIDI messages.

14. (Original) The method of claim 4 wherein the at least one incoming control signal comprises MIDI messages.

15. (Previously Presented) A method for generating at least one outgoing digital control signal utilizing at least one control signal processor, the method comprising:  
processing a first incoming real-time control signal;  
processing a second incoming control signal;  
generating the at least one outgoing digital control signal based upon a non-merging combination of the first incoming real-time control signal and the second incoming control signal; and  
wherein the first incoming real-time control signal, the second incoming control signal, and the at least one outgoing digital control signal comprise MIDI messages.

16. Canceled

17. Canceled

18. (Original) The method of claim 15 wherein both the first incoming real-time control signal and the second incoming control signal comprise values, and wherein the control signal processor performs one operation selected from the group consisting of:

- multiplication of the values of the first and second incoming control signals;
- addition of the values of the first and second incoming control signals.

19. (Original) The method of claim 15 wherein a temporal sequence of the first and second incoming control signals is used to generate the at least one outgoing digital control signal.

20. (Previously Presented) A method for processing an incoming real-time MIDI control signal, the method comprising:

receiving the incoming real-time MIDI control signal;

generating an outgoing real-time MIDI control signal, wherein said generating is performed by one or more message conversion methods selected from the group consisting of:

- changing an incoming MIDI note number value to an outgoing MIDI continuous controller value
- changing an incoming MIDI note velocity value to an outgoing MIDI continuous controller value
- changing an incoming MIDI continuous controller value to an outgoing MIDI note value
- changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with scaling
- changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with offset
- changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with complementary magnitude
- changing an incoming MIDI note number value to an outgoing MIDI note number value according to variably transposed intelligent harmony that is controlled by the incoming real-time MIDI control signal; and

communicating the generated outgoing real-time MIDI control signal to an external system via an outgoing control signal interface.

**Please enter the following new claims:**

21. (New) The method of claim 18 wherein said operation performed by the control signal processor is:

- said multiplication of the values of the first and second incoming control signals.

22. (New) The method of claim 18 wherein said operation performed by the control signal processor is:

- said addition of the values of the first and second incoming control signals.

23. (New) The method of claim 20 wherein said generating is performed by:

- said changing an incoming MIDI note number value to an outgoing MIDI continuous controller value.

24. (New) The method of claim 20 wherein said generating is performed by:

- said changing an incoming MIDI note velocity value to an outgoing MIDI continuous controller value.

25. (New) The method of claim 20 wherein said generating is performed by:

- said changing an incoming MIDI continuous controller value to an outgoing MIDI note value.

26. (New) The method of claim 20 wherein said generating is performed by:

- said changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with scaling.

27. (New) The method of claim 20 wherein said generating is performed by:
- said changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with offset.
28. (New) The method of claim 20 wherein said generating is performed by:
- said changing an incoming MIDI continuous controller value to an outgoing MIDI continuous controller value with complementary magnitude.
29. (New) The method of claim 20 wherein said generating is performed by:
- said changing an incoming MIDI note number value to an outgoing MIDI note number value according to variably transposed intelligent harmony that is controlled by the incoming real-time MIDI control signal.